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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,194	10/12/2000	Minoru Waki	001350	2228
7590 07/14/2004			EXAMINER	
Armstrong Westerman Hattori			SHOSHO, CALLIE E	
McLeland & Naughton 1725 K Street N W Suite 1000			ART UNIT	PAPER NUMBER
Washington, D	C 20006		1714	
			DATE MAILED: 07/14/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/673,194	WAKI, MINORU
Office Action Summary	Examiner	Art Unit
	Callie E. Shosho	1714
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the	36(a). In no event, however, may a y within the statutory minimum of th will apply and will expire SIX (6) MO a, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C.§ 133).
Status		
Responsive to communication(s) filed on <u>3/15</u> This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for alloward closed in accordance with the practice under <i>I</i> .	s action is non-final. nce except for formal ma	
Disposition of Claims		
4) Claim(s) 1-3 and 9-11 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 and 9-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to drawing(s) be held in abeya ction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	Paper No	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152)

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/15/04 has been entered.
- 2. All outstanding rejections are overcome by applicant's amendment filed 3/15/04.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 and 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 09104834.

JP 09104834, an English translation of which is included in this office action, discloses water-based pigment dispersion comprising pigment and crosslinked thermoplastic resin containing carboxylic group wherein the pigment is dispersed by water-soluble thermoplastic

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resin containing carboxylic group followed by crosslinking the resin with crosslinking agent wherein the ratio of pigment to thermoplastic resin is 0.01:1 to 2:1 (1/100-200/100) and the ratio of crosslinking agent to thermoplastic resin is approximately 0.11:1 to 0.43:1 (10/90 to 30/70). It is further disclosed that the resin has number average molecular weight of 5,000-20,000 and acid number of 30-120 and is a vinyl-type resin obtained from monomers including (meth)acrylic acid and (meth)acrylates. The dispersion comprises, for instance, 20% solids. There is also disclosed water-based ink comprising the above dispersion. There is further disclosed process comprising the steps of predispersing the pigment and thermoplastic resin, treating the mixture by homogenizer to disperse the pigment with the resin to produce a dispersion, adjusting the pH to alkaline range, and crosslinking the resin with the crosslinking agent (claims 1-2, 4, and 5-7 and paragraphs 15-17, 24, 27, 31, 35-36, 72-73, 76, 83-84, 89-90, 94, 109, 111, 124, and 136).

In light of the above, it is clear that JP 09104834 anticipates the present claims.

5. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Kato et al. (U.S. 5,348,997).

Kato et al. disclose aqueous pigment dispersion comprising pigment and crosslinked water-soluble polymer that is obtained from carboxylic acid monomer. It is disclosed that the pigment is dispersed with water-soluble polymer and after the pigment is dispersed, the polymer is crosslinked with crosslinking agent (hydrazine) to form crosslinked polymer. The ratio of pigment to polymer is 100/10 to 100/0.1. Attention is drawn to example 5 (Table 3) that discloses the ratio of crosslinking agent to polymer is, for instance, 0.2:1 while the ratio of

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pigment to polymer is 2:1 (col.1, lines 7-8 and 41-68, col.2, lines 36-43 and 56, col.12, lines 3-

26, and Table 3).

In light of the above, it is clear that Kato et al. anticipates the present claims.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Callie E. Shosho whose telephone number is 571-272-1123. The

examiner can normally be reached on Monday-Friday (6:30-4:00) Alternate Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Callie E. Shosho

Primary Examiner

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CS

7/9/04